

Listing of Claims:

Please cancel claims 1-24, and add new claims 25-132.

- 1 **Claim 25.** (New) A method of providing phosphorus to a plant, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation in an amount of from about 30 to about 40 percent
5 (wt/vol), thus forming a phosphorus fertilizer that is buffered, substantially
6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and
7 (b) applying said phosphorus fertilizer to the foliage of said plant.
- 1 **Claim 26.** (New) The method of claim 25, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 27.** (New) The method of claim 25, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 28.** (New) The method of claim 25, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 29.** (New) The method of claim 25, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.
- 1 **Claim 30.** (New) The method of claim 25, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

- 1 **Claim 31.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation

3 comprising at least one phosphorous-containing acid or salt thereof which is

4 present in said formulation in an amount of about 30 percent (wt/vol) or

5 greater, thus forming a phosphorus fertilizer that is buffered, substantially

6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

7 (b) applying said phosphorus fertilizer to the foliage of said plant.

1 **Claim 32.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 33.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 34.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 35.** (New) The method of claim 31, wherein said phosphorus fertilizer has a pH of

2 5.0 to 7.0.

1 **Claim 36.** (New) The method of claim 31, wherein said mixing further comprises:

2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 37.** (New) A method of providing phosphorus to a plant, said method comprising:

- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein
4 said formulation comprises phosphorus in an amount equivalent to from about
5 0.30 kg/L to about 0.40 kg/L P₂O₅, thus forming a phosphorus fertilizer that is
6 buffered, substantially fully solubilized, and has a foliage-acceptable pH for
7 phosphorus uptake; and
8 (b) applying said phosphorus fertilizer to the foliage of said plant.

1 **Claim 38.** (New) The method of claim 37, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 39.** (New) The method of claim 37, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 40.** (New) The method of claim 37, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 41.** (New) The method of claim 37, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 42.** (New) The method of claim 37, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 43.** (New) A method of providing phosphorus to a plant, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein

4 said formulation comprises phosphorus in an amount equivalent to about 0.30
5 kg/L or greater P₂O₅, thus forming a phosphorus fertilizer that is buffered,
6 substantially fully solubilized, and has a foliage-acceptable pH for phosphorus
7 uptake; and

8 (b) applying said phosphorus fertilizer to the foliage of said plant.

1 **Claim 44.** (New) The method of claim 43, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 45.** (New) The method of claim 43, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 46.** (New) The method of claim 43, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 47.** (New) The method of claim 43, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 48.** (New) The method of claim 43, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 49.** (New) A method of providing phosphorus to a plant, said method comprising:

- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P₂O₅, thus forming a phosphite fertilizer that is buffered,

6 substantially fully solubilized, and has a foliage-acceptable pH for phosphorus
7 uptake; and

8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 50.** (New) The method of claim 49, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 51.** (New) The method of claim 49, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 52.** (New) The method of claim 49, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 53.** (New) The method of claim 49, wherein said phosphite fertilizer has a pH of 5.0

2 to 7.0.

1 **Claim 54.** (New) The method of claim 49, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 55.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to from about 0.30
5 kg/L to 0.40 kg/L or greater P₂O₅, thus forming a phosphorus fertilizer that is
6 buffered, substantially fully solubilized, and has a foliage-acceptable pH for
7 phosphorus uptake; and

- 8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 56.** (New) The method of claim 55, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 57.** (New) The method of claim 55, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 58.** (New) The method of claim 55, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 59.** (New) The method of claim 55, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 60.** (New) The method of claim 55, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 61.** (New) A method of providing phosphorus to a plant, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P₂O₅, thus forming a phosphite fertilizer that is buffered,
6 substantially fully solubilized, and has a foliage-acceptable pH for phosphorus
7 uptake; and
8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 62.** (New) The method of claim 61, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

- 1 **Claim 63.** (New) The method of claim 61, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

- 1 **Claim 64.** (New) The method of claim 61, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

- 1 **Claim 65.** (New) The method of claim 61, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

- 1 **Claim 66.** (New) The method of claim 61, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

- 1 **Claim 67.** (New) A method of providing phosphorus to a plant, comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and at least one
3 formulation comprising a phosphorous-containing acid, wherein said
4 phosphorous-containing acid is selected from the group consisting of
5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
6 polyhypophosphorous acid, and salts thereof, thus forming a phosphorus
7 fertilizer with a pH less than about 2.5; and
8 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near
9 said plant.

- 1 **Claim 68.** (New) The method of claim 67, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and

- 3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 69.** (New) The method of claim 67, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 70.** (New) The method of claim 67, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 71.** (New) A method of providing phosphorus to a plant, comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and at least one
3 formulation comprising a phosphorous-containing acid, wherein said
4 phosphorous-containing acid is selected from the group consisting of
5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
6 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-
7 containing acid or salt thereof is present in said formulation in an amount of
8 about 30 percent or greater (wt/vol), thus forming a phosphorus fertilizer with
9 a pH less than about 2.5; and
10 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near
11 said plant.

1 **Claim 72.** (New) The method of claim 71, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 73.** (New) The method of claim 71, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 74.** (New) The method of claim 71, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 75.** (New) A method of providing phosphorus to a plant, comprising:

- 2 (a) mixing water, at least one organic acid or salt thereof, and at least one
3 formulation comprising a phosphorous-containing acid, wherein said
4 phosphorous-containing acid is selected from the group consisting of
5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
6 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-
7 containing acid or salt thereof is present in said formulation in an amount of
8 between about 30 percent and 46 percent (wt/vol), thus forming said
9 phosphorus fertilizer with a pH less than 2.5; and
10 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near
11 said plant.

1 **Claim 76.** (New) The method of claim 75, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 77.** (New) The method of claim 75, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

- 1 **Claim 78.** (New) The method of claim 75, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 79.** (New) A method of making a phosphorus fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation in an amount of from about 30 to about 40 percent
5 (wt/vol), thus forming said phosphorus fertilizer, wherein said phosphorus
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.
- 1 **Claim 80.** (New) The method of claim 79, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 81.** (New) The method of claim 79, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 82.** (New) The method of claim 79, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 83.** (New) The method of claim 79, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

- 1 **Claim 84.** (New) The method of claim 79, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.
- 1 **Claim 85.** (New) A method of making a phosphorus fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation, in an amount of about 30 percent (wt/vol) or
5 greater, thus forming said phosphorus fertilizer, wherein said phosphorus
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.
- 1 **Claim 86.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 87.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 88.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 89.** (New) The method of claim 85, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.
- 1 **Claim 90.** (New) The method of claim 85, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

- 1 **Claim 91.** (New) A method of making a phosphorus fertilizer, said method comprising:
- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein
4 said formulation comprises phosphorus in an amount equivalent to from about
5 0.30 kg/L to about 0.40 kg/L P₂O₅, thus forming said phosphorus fertilizer,
6 wherein said phosphorus fertilizer is buffered, substantially fully solubilized,
7 and has a foliage-acceptable pH for phosphorus uptake.
- 1 **Claim 92.** (New) The method of claim 91, wherein said mixing comprises:
- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 93.** (New) The method of claim 91, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 94.** (New) The method of claim 91, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 95.** (New) The method of claim 91, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.
- 1 **Claim 96.** (New) The method of claim 91, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.
- 1 **Claim 97.** (New) A method of making a phosphorus fertilizer, said method comprising:
- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein

4 said formulation comprises phosphorus in an amount equivalent to about 0.30
5 kg/L or greater P₂O₅, thus forming said phosphorus fertilizer, wherein said
6 phosphorus fertilizer is buffered, substantially fully solubilized, and has a
7 foliage-acceptable pH for phosphorus uptake.

1 **Claim 98.** (New) The method of claim 97, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 99.** (New) The method of claim 97, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 100.** (New) The method of claim 97, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 101.** (New) The method of claim 97, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 102.** (New) The method of claim 97, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 103.** (New) A method of making a phosphate fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphate-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P₂O₅, thus forming said phosphate fertilizer, wherein said phosphate

6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

1 **Claim 104.** (New) The method of claim 103, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 105.** (New) The method of claim 103, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 106.** (New) The method of claim 103, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 107.** (New) The method of claim 103, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 108.** (New) The method of claim 103, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 109.** (New) A method of making a phosphite fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to from about 0.30
5 kg/L to 0.40 kg/L or greater P₂O₅, thus forming said phosphite fertilizer,
6 wherein said phosphite fertilizer is buffered, substantially fully solubilized,
7 and has a foliage-acceptable pH for phosphorus uptake.

1 **Claim 110.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

- 1 **Claim 111.** (New) The method of claim 109, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

- 1 **Claim 112.** (New) The method of claim 109, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

- 1 **Claim 113.** (New) The method of claim 109, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

- 1 **Claim 114.** (New) The method of claim 109, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

- 1 **Claim 115.** (New) A method of making a phosphite fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P₂O₅, thus forming said phosphite fertilizer, wherein said phosphite
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

- 1 **Claim 116.** (New) The method of claim 115, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

- 1 **Claim 117.** (New) The method of claim 115, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 118.** (New) The method of claim 115, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 119.** (New) The method of claim 115, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 120.** (New) The method of claim 115, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 121.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:

- 3 (a) mixing water, at least one organic acid or salt thereof, and at least one
4 formulation comprising a phosphorous-containing acid, wherein said
5 phosphorous-containing acid is selected from the group consisting of
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
7 polyhypophosphorous acid, and salts thereof, thus forming said phosphorus
8 fertilizer.

1 **Claim 122.** (New) The method of claim 121, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 123.** (New) The method of claim 121, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

- 1 **Claim 124.** (New) The method of claim 121, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 125.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:
3 (a) mixing water, at least one organic acid or salt thereof, and at least one
4 formulation comprising a phosphorous-containing acid, wherein said
5 phosphorous-containing acid is selected from the group consisting of
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-
8 containing acid or salt thereof is present in said formulation in an amount of
9 about 30 percent or greater (wt/vol), thus forming said phosphorus fertilizer.

1 **Claim 126.** (New) The method of claim 125, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 127.** (New) The method of claim 125, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 128.** (New) The method of claim 125, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 129.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one
4 formulation comprising a phosphorous-containing acid, wherein said
5 phosphorous-containing acid is selected from the group consisting of
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-
8 containing acid or salt thereof is present in said formulation in an amount of
9 between about 30 percent and 46 percent (wt/vol), thus forming said
10 phosphorus fertilizer.

1 **Claim 130.** (New) The method of claim 129, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 131.** (New) The method of claim 129, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 132.** (New) The method of claim 129, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).